

CLAIMS

1. A communication traffic control system on a LAN of a CSMA/CD type having servers and clients connected thereto, comprising:

5 reception means for enabling other client to receive a transmission request and an object corresponding to said transmission request when one client generates said transmission request of said object to a server and receives said object corresponding to  
10 said transmission request from said server;

a storage unit disposed inside said one client, for storing said transmission request and said object corresponding to said transmission request;

judgment means for judging whether or not  
15 said object corresponding to said transmission request is stored in said storage unit when said one client generates said transmission request to said server; and

object acquisition means for directly  
20 acquiring said object corresponding to said transmission request from said storage unit without passing through said LAN when the judgment result of said judgment means is positive, and acquiring said object corresponding to said transmission request from said server through said LAN when the judgment result of said judgment means is  
25 negative.

2. A traffic control system on a LAN according to claim 1, wherein said object stored in said storage unit is of a predetermined kind set in advance.

3. A traffic control system on a LAN according to  
30 claim 1, wherein said object stored in said storage unit is an object corresponding to a transmission request generated from a client having an IP address set in advance.

4. A traffic control system on a LAN according to  
35 any of claims 1 through 3, wherein said object stored in said storage unit is appropriately updated.

5. A traffic control system on a LAN according to

any of claims 1 through 4, wherein said storage unit stores said transmission request of said object that said one client generates to said server and said object corresponding to said transmission request.

5           6. A method of controlling communication traffic on a LAN of a CSMA/CD type having servers and clients connected thereto, comprising the steps of:

                  a first step of allowing another client to receive a transmission request and an object  
10           corresponding to said transmission request when one client generates said transmission request of said object to a server and receives said object corresponding to said transmission request from said server;

                  a second step of storing said transmission request and said object corresponding to said  
15           transmission request in a storage unit disposed inside said one client;

                  a third step of judging whether or not said object corresponding to said transmission request is  
20           stored in said storage unit when said one client generates said transmission request to said server; and

                  a fourth step of directly acquiring said object corresponding to said transmission request from  
25           said storage unit without passing through said LAN when the judgment result of said third step is positive, and acquiring said object corresponding to said transmission request from said server through said LAN when the judgment result of said third step is negative.

                  7. A method of controlling traffic on a LAN  
30           according to claim 6, which further includes a step of selecting a predetermined kind of an object set in advance for said object stored in said storage unit.

                  8. A method of controlling traffic on a LAN  
35           according to claim 6 or 7, which further includes a step of selecting said object stored in said storage unit that corresponds to said transmission request generated from a client having an IP address set in advance.

9. A method of controlling traffic on a LAN according to claim 6 or 7, which further includes a step of appropriately updating said object stored in said storage unit.

5           10. A method of controlling traffic on a LAN  
according to any of claim 6 or 9, which further includes  
a step of storing said transmission request of said  
object that said one client generates to said server and  
said object corresponding to said transmission request in  
10 said storage unit.

11. A computer-readable recording medium for use in a communication traffic control system on a LAN of a CSMA/CD type having servers and clients connected thereto, recording therein a program for allowing a computer to execute the following steps 1 to 4:

the first step of allowing another client to receive a transmission request and an object corresponding to said transmission request when one client generates said transmission request of said object  
20 to a server and receives said object corresponding to said transmission request from said server;

the second step of storing said  
transmission request and said object corresponding to  
said transmission request in a storage unit disposed  
25 inside said one client;

the third step of judging whether or not said object corresponding to said transmission request is stored in said storage unit when said one client generates said transmission request to said server; and

the fourth step of directly acquiring said object corresponding to said transmission request from said storage unit without passing through said LAN when the judgment result of said third step is positive, and acquiring said object corresponding to said transmission request from said server through said LAN when the judgment result of said third step is negative.